FEATURE: Klamath River Dams Removal			PROJECT:							
		ial Remova		Klamath River						
			& Powerplant Removal	WOID:	Oregon AF652	TESTIM	ATE LEVEL:	Fa-allylligy		
		-	- Escalation NOT Included	REGION:			RICE LEVEL:	Feasibility Jul-10		
		ear Life Cy		FILE:			amath\002 Compl			
		mary					Boyle\Escalation\[
PLANT ACCOUNT	РАУ ІТЕМ		DESCRIPTION	CODE	QUANTITY	UNIT	UNIT PRICE	AMOUNT		
		Periodic Cos	sts - Year 1			1		\$348,520.00		
		Periodic Cos	sts - Year 8					\$166,451.0		
		Periodic Cos	sts - Year 17					\$165,990.0		
<u> </u>		Periodic Cos	sts - Year 25					\$83,724.6		
		Periodic Cos	sts - Year 33			<u> </u>		\$86,935.2		
		Periodic Cos	uts - Year 42					\$42,113.0		
		Periodic Cos	uts - Year 50					0.00		
		Annual Costs	s - Maintenance			1		\$1,892,705.00		
		(Assume	es gov't service / construction contracts)							
		Subtotal 1						\$2,786,438.86		
		Mobilizati	ion	5%	+/-			\$140,000.00		
		Subtotal 1 w	with Mobilization	<u> </u>				\$2,926,438.80		
		Escalatio	on to Notice to Proceed (NTP): from Unit P	rice Level (J	uly, 2010) to N	TP (July, 20	J20)			
			None Include		per year for		months.			
		Subtotal 2 =	: Subtotal 1 with Mobilization + Escalati	ion to NTP				\$2,926,438.80		
	Ĺ'	Design C	Contingencies	10%	+/-		1	\$273,561.20		
	'	Subtotal 3 =	Subtotal 2 + Design Contingencies					\$3,200,000.00		
		Allowance	e for Procurement Strategies (APS)	0%	+/-		i	1		
		Type of solicitation assumed is: Competive Re		quest for Pror	posal		1	1		
		Subtotal 4 =	: Subtotal 3 + APS					\$3,200,000.00		
			ee (% of Total Contract)		+/-			1		
		Subtotal 5 =	Subtotal 4 + TERO Fee				i	\$3,200,000.00		
		CONTRACT	COST					\$3,200,000.00		
		Construct	tion Contingencies	20%	+/-			\$700,000.00		
		FIELD COST						\$3,900,000.00		
		Non-Cont	tract Costs	30%	+/-			\$1,200,000.00		
		(Environm	nental Cultural / Mitigation ~ 7%,							
		Engineeri	ing Design ~ 5%, Maintenance Service Co	ontract ~ 5%						
		Procurem	nent ~ 2%, Inspections ~ 10%							
		and Close	eout ~ 1%)							
		CONSTRUCT	TON COST			ı I		\$5,100,000.00		
						i				
		Note: intial es	stimate completed 4/17/11, revised non-co	ontract costs 5	5/12/11, design	contingenc	cyt costs 6/9/11			
			ropriate use and terminology, see Reclama					ind 09-03.		
QUANTITIES							ICES			
3Y			CHECKED	BY q	1. Ku		CHECKED	/		
Rick Ber	nik		Stephen Latham		Gree Akins			ac 6/15/11		
DATE	PREF	PARED		DATE PRE	EPARED	- F	PEER REVIEW / C	DATE ,		
03/24/11 Tom Hepler P.E. 3/25/11			Tom Hepler P.E. 3/25/11	I			DCO	4/15/11		

FEA	FEATURE: Klamath River Dams Removal Partial Removal Option JC Boyle Dam & Powerplant Removal Most Probable High - Escalation NOT Included				PROJECT:						
					Klamath River Oregon						
					AF652	ESTIM	ATE LEVE	Feasibility			
					MP		PRICE LEV	Jul-10			
	Life Cycle - 50 Year			FILE:				S/MP MPL MPH/03 - JC			
	Summary							x]Life Cycle Summary			
PLANT ACCOUNT	PAY ITEM		DESCRIPTION	CODE	QUANTITY	UNIT	UNIT PRICE	AMOUNT			
		Periodic Cos	sts - Year 1					\$204.040.00			
	1	Periodic Cos						\$394,940.00			
		Periodic Cos	sts - Year 10				 	\$219,930.92 \$179,684.33			
		Periodic Cos	sts - Year 13					\$62,645.06			
		Periodic Cos	ets - Year 15					\$146,802.77			
		Periodic Cos	sts - Year 20					\$119,937.60			
	1	Periodic Cos	sts - Year 25					\$136,558.46			
		Periodic Cos	sts - Year 30				 	\$80,059.80			
		Periodic Cos	sts - Year 35					\$65,407.79			
		Periodic Cos	sts - Year 38					\$22,803.62			
		Periodic Cos	sts - Year 40					\$53,439.60			
		Periodic Cos	sts - Year 45					\$43,659.93			
		Periodic Cos	ets - Year 50					0.00			
		Annual Cost	s - Maintenance					\$5,257,515.00			
		(Assume	s gov't service / construction contracts)			·		φο,μον,στο.σσ			
		Subtotal 1	·					\$6,783,384.88			
		Mobilizat	ion	5%	+/-		 	\$340,000.00			
		Subtotal 1 w	vith Mobilization				 	\$7,123,384.88			
		Escalatio	n to Notice to Proceed (NTP): from Unit Price Level	(July, 2010) to	NTP (July, 2	2020)		, , , , , , , , , , , , , , , , , , , ,			
			None Included	d:	per year for		months.				
		Subtotal 2 =	Subtotal 1 with Mobilization + Escalation to NTP					\$7,123,384.88			
		Design C	ontingencies	15%	+/-			\$1,112,777.12			
		Subtotal 3 =	Subtotal 2 + Design Contingencies					\$8,236,162.00			
		Allowance	e for Procurement Strategies (APS)	2.0%	+/-			\$163,838.00			
		Туре	of solicitation assumed is: Selective Request for Pro	posal							
		Subtotal 4 =	Subtotal 3 + APS					\$8,400,000.00			
		CONTRACT	COST					\$8,400,000.00			
		Construct	tion Contingencies	25%	+/-			\$2,100,000.00			
		FIELD COST						\$10,500,000.00			
		Non-Cont	ract Costs	35%	+/-			\$3,500,000.00			
		(Environm	nental Cultural / Mitigation ~ 10%,								
		Engineeri	ng Design ~ 7%, Maintenance Service Contract ~ 5%	6							
		Procurem	ent ~ 2%, Inspections ~ 10%								
		and Close	out ~ 1%)								
	(CONSTRUCTION COST						\$14,000,000.00			
	I	Ref.: For appr	opriate use and terminology, see Reclamation Manu	al, Directives and Standards FAC; 09-01, 09-02 and 09-03.							
		QUANTITIES			PRICES						
ΙY			CHECKED	BY gry	de		CHECKED	~ // .			
ick Be			Stephen Latham	L XX	Greg Akins		Lull	Jus 4/15 X			
DATE PREPARED PEER REVIEW / DATE			DATE PR	EPARED		PEER REVI	EW / DATE				
3/24/11			Tom Hepler P.E. 3/25/11				Acs	· 6/15/11			

FEATURE:				PROJE(PROJECT:					
Klamath River Dams Removal					Klamath River					
	Parti	al Removal	Option	Oregon						
		-	& Powerplant Removal	WOID:	AF652	ESTIM	ATE LEVEL	Feasibility		
			Low - Escalation NOT Included	REGION	N MP	UNIT I	PRICE LEVE	Jul-10		
		Cycle - 50 Y	'ear	FILE:	U:\2011 Projects\	Klamath\002 (Completed Sheets\MP	MPL MPH\03 - JC		
	1	mary			Boyle\Escalation\	(JC Boyle - Mi	IPL - Probable.xlsx]Life	Cycle Summary		
PLANT ACCOUNT	PAY ITEM		DESCRIPTION	CODE	QUANTITY	UNIT	UNIT PRICE	AMOUNT		
		Periodic Cos	sts - Year 1					\$299,400.00		
		Periodic Co	sts - Year 17					\$100,600.0		
		Periodic Cor	sts - Year 25					\$29,667.6		
		Periodic Cor	sts - Year 33					\$52,688.0		
		Periodic Cor	sts - Year 50			1		0.0		
		(Assume	es gov't service / construction contracts)	1		1				
			ts - Maintenance					\$1,114,593.00		
		Subtotal 1					+	\$1,596,948.6		
		Mobilizat	tion	5%	+/-			\$80,000.00		
		Subtotal 1 v	with Mobilization			†		\$1,676,948.63		
		Escalatic	on to Notice to Proceed (NTP): from Unit Price Leve	el (July, 2010)) to NTP (July,	2020)		τ-,-,-		
			None Include	,d	per year for		months.			
		Subtotal 2 =	= Subtotal 1 with Mobilization + Escalation to NT	rP				\$1,676,948.63		
		Design C	Contingencies	8%	+/-			\$123,051.37		
		Subtotal 3 =	= Subtotal 2 + Design Contingencies					\$1,800,000.00		
		Allowanc	ce for Procurement Strategies (APS)	0%	+/-					
		Type of solicitation assumed is: Full and open sealed b		d competition	1					
		 	= Subtotal 3 + APS		·			\$1,800,000.00		
	ļ	CONTRACT	COST					\$1,800,000.00		
	L	Construct	ction Contingencies	18%	+/-			\$300,000.00		
		FIELD COST	Г					\$2,100,000.00		
			stract Costs	25%	+/-			\$500,000.00		
		(Environm	mental Cultural / Mitigation ~ 5%, Engineering			1				
		Design ~	4%, Maintenance Service Contract ~ 4%		I	í T				
		Procurem	nent ~ 1%, Inspections ~ 10%			i				
		and Close	eout ~ 1%)			i				
		CONSTRUCT	TION COST			1		\$2,600,000.00		
		- <u>-</u>								
		Ref.: For appr	propriate use and terminology, see Reclamation Mar QUANTITIES	nual, Directive	es and Standar			09-03.		
3Y				<u> </u>		PRICE				
				BY 9	mster.	_	CHECKED	1 11		
ick Benik Stephen Latham PATE PREPARED PEER REVIEW / DATE				DATE PREPARED PEER REVIEW / DATE				BNUS//		
3/24/11	1		Tom Hepler P.E. 3/25/11				Das	4/15/11		